

Abstract of the Disclosure

Methods and systems are provided for performing protocol conversions in an environment including a work machine having one or more modules coupled to one or more data links. Such methods and systems may leverage one or more gateways to perform tunneling, translating, and bridging operations. Tunneling processes may include receiving a message from a source module in a first protocol, encapsulating the message within transmission units of a second protocol, and transmitting the encapsulated message via the second protocol. Translating processes may include receiving, by the gateway, a message in a first data link protocol including a parameter identifier. The gateway may match the parameter identifier with a parameter identifier included in a translation table and scale associated parameter data using a scale factor corresponding to a second data link protocol. The gateway may then provide the scaled parameter data to a module using the second data link protocol.